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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-12-12-62 **Date: 10-10-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.
Project Name	:	Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-12-12-62 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	08-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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R KARTHIK RECHAN
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Quality Manager

NDR
AE(Acct)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara P
Bangalore - 560 092

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-12-62** **Date: 05-11-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.
Project Name	:	Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample ID No	:	2018-12-12-62 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	08-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-12-12-62**	**Date: 13-10-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.	
Project Name	:	Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.	
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010	
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-10-18	
Sample ID No	:	2018-12-12-62 /04	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.	
Date of test:	:	12-10-18	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.395	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2018-12-12-62** **Date: 11-10-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP,Banaglore.

Project Name : Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010

Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-10-18

Sample ID No : 2018-12-12-62 /04

Sample Type /Size : CC Kerb Stone/ 450*200*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 08/10/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	165.25	200.51	2.864	21443	142.1	6.6	6.6	8.3
2	B	165.32	200.49	2.793	21461	145.2	6.8	6.8	8.5
3	C	165.21	200.50	2.815	21433	145.1	6.8	6.8	8.5

Note:

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Quality Manager

NDP AE(CZ)

Assistant Executive Engineer Kodigehalli Sub Division Bruhat Bangalore Mahanagara Palike

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CEMENT CONCRETE FLOORING TILES

Lab ID	:	CP-2018-12-12-62 **Date: 25-10-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.
Project Name	:	Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010
Customer Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-10-18
Sample ID No	:	2018-12-12-62
Sample Type/ Size	:	Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes	:	IS 1237:2012
Date of test	:	22-10-18

1.Wet Transverse Strength

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	400	400	12.14	7.6	8.19	The average wet transverse strength shall not be less than $3N/mm^2$.
2	400	400	12.03	7.9		
3	400	400	12.01	8.9		
4	400	400	12.05	8.4		
5	400	400	12.16	7.5		
6	400	400	12.01	8.9		

2. Water Absorption

Sl.No.	Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	400	400	12.01	3.24	3.24	The average percentage of water absorption shall not exceed 10.
2	400	400	12.08	3.32		
3	400	400	12.04	3.26		
4	400	400	12.09	3.14		
5	400	400	12.06	3.26		
6	400	400	12.05	3.24		

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CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	**CP2018-12-12-62** **Date: 27-10-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Establishment Of RO Plant And Providing Play Equipments And Open Gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Executive Engineer,KRIDL, #280,59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-10-18
Sample ID No	:	2017-03-10-06/03
Sample Type/ Size	:	Precast concrete blocks for paving
Reference to BIS codes	:	IS 15658:2006
Date of test	:	23-10-18

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	78.99	42.5	43.1
2	198.48	159.64	78.25	43.8	
3	199.54	159.54	78.48	42.5	
4	197.68	159.22	78.55	43.5	
5	198.11	159.87	78.32	42.8	
6	198.18	160.02	78.11	43.4	
7	198.45	158.99	77.98	43.2	
8	197.22	159.22	78.12	42.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	77.85	3.29	3.64
2	4.898	4.721	78.22	3.75	
3	4.988	4.802	78.44	3.87	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-12-62** **Date: 13-10-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.
Project Name	:	Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-10-18
Sample ID No	:	2018-12-12-62 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-12-62** **Date: 13-10-18**

Sample ID No : 2018-12-12-62 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.55	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.22	_

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Assistant Executive Engineer

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-12-62** **Date: 13-10-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.
Project Name	:	Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010
Customer Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-10-18
Sample ID No	:	2018-12-12-62 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-12-62** **Date: 13-10-18**

Sample ID No : 2018-12-12-62 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.43	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-12-62** **Date: 13-10-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP,Banaglore.

Project Name : Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010

Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-10-18

Sample ID No : 2018-12-12-62 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-10-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-12-62** **Date: 13-10-18**

Sample ID No : 2018-12-12-62 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.51	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-12-12-62** **Date: 23-10-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP,Banaglore.
Project Name	:	Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/92/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-10-18
Sample ID No	:	2018-12-12-62 /07
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	20-10-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	151	202	12201	34.240	2806.4	2818.4	Not less than 1800Kg/m^3
2	401	153	201	12332	34.520	2799.2		
3	400	152	200	12160	34.650	2849.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	36.340	34.060	6.69	5.67	Shall not be more than 10% by mass
2	36.360	34.530	5.30		
3	36.380	34.640	5.02		

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Lab ID : **CP-2018-12-12-62**

Date: 23-10-18

Sample ID No : **2018-12-12-62 /07**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	151	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	153	202	
3	400	152	200	
4	402	152	201	
5	401	151	202	
6	400	153	200	
7	401	150	201	
8	402	150	202	
9	400	151	200	
10	401	152	201	
11	401	153	201	
12	401	150	200	
13	402	150	202	
14	401	152	203	
15	401	151	203	
16	402	153	201	
17	400	152	202	
18	403	151	201	
19	401	151	203	
20	401	151	201	
Average of 20	**401**	**151**	**201**	

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Lab ID : **CP-2018-12-12-62** **Date: 23-10-18**

Sample ID No : 2018-12-12-62 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	151	60551	325.62	5.4	5.5
2	401	153	61353	336.83	5.5	
3	400	152	60800	354.36	5.8	
4	402	152	61104	321.36	5.3	
5	401	151	60551	342.23	5.7	
6	400	153	61200	326.48	5.3	
7	401	150	60150	326.62	5.4	
8	402	150	60300	321.21	5.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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FOR CIVIL Pro.

Assistant Executive Engineer
Koalgehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-12-62** **Date: 27/10/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP,Banaglore.

Project Name : Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010

Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-18

Sample ID No : 2018-12-12-62 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/10/2018	27/10/2018	150.54 X 150.44 X 150.47	22647	8.312	389.5	17.2	17.3
2	Drain Concrete	M20	20/10/2018	27/10/2018	150.54 X 150.45 X 150.42	22649	8.331	398.6	17.6	
3	Drain Concrete	M20	20/10/2018	27/10/2018	150.52 X 150.42 X 150.33	22641	8.345	389.4	17.2	

Note:

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CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-12-62** **Date: 17/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP,Banaglore.

Project Name : Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010

Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-18

Sample ID No : 2018-12-12-62 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/10/2018	17/11/2018	150.48 X 150.52 X 150.43	22650	8.312	539.1	23.8	23.7
2	Drain Concrete	M20	20/10/2018	17/11/2018	150.45 X 150.52 X 150.38	22646	8.331	532.2	23.5	
3	Drain Concrete	M20	20/10/2018	17/11/2018	150.48 X 150.33 X 150.38	22622	8.345	536.1	23.7	

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-12-62** **Date: 27/10/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP,Banaglore.

Project Name : Establishment Of RO Plant And Providing Play equipments and Open gym Equipments In Jakkur Layout In Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Banaglore-560010

Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-18

Sample ID No : 2018-12-12-62 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/10/2018	27/10/2018	150.38 X 150.45 X 150.52	22625	8.312	389.1	17.2	17.5
2	Drain Concrete	M20	20/10/2018	27/10/2018	150.32 X 150.52 X 150.32	22626	8.331	398.2	17.6	
3	Drain Concrete	M20	20/10/2018	27/10/2018	150.40 X 150.52 X 150.33	22638	8.345	403.0	17.8	

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NDD AE(NR)

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Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-12-62** **Date: 17/11/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

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Customer's Reference : BBMP/EE/BTP/WO/92/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-18

Sample ID No : 2018-12-12-62 /04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/10/2018	17/11/2018	150.52 X 150.48 X 150.43	22650	8.312	539.1	23.8	23.6
2	Drain Concrete	M20	20/10/2018	17/11/2018	150.52 X 150.49 X 150.38	22652	8.331	525.5	23.2	
3	Drain Concrete	M20	20/10/2018	17/11/2018	150.45 X 150.52 X 150.33	22646	8.345	536.7	23.7	

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NOA
AE (KD)

Assistant Executive Engineer
Kodigehalli Sub Division
Bangalore

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